.10-11-05

PTO/SB/21 (04-04)

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#### **Application Number** 10/801,933 TRANSMITTAL 03/16/2004 Filing Date **FORM** First Named Inventor Akiyoshi AOYAGI (to be used for all correspondence after initial filing) Art Unit 2826 **Examiner Name** Ben P. Sandvik Total Number of Pages in This Submission Attorney Docket Number 9319S-000670 ENCLOSURES (check all that apply) After Allowance Communication to Fee Transmittal Form Drawing(s) Technology Center (TC) Appeal Communication to Board of Fee Attached Licensing-related Papers Appeals and Interferences Petition Appeal Communication to TC Amendment / Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a After Final Proprietary Information Provisional Application Power of Attorney, Revocation Affidavits/declaration(s) Status Letter Change of Correspondence Address l Terminal Disclaimer Other Enclosure(s) Extension of Time Request (please identify below): HDP Form 1449; One (1) Foreign Request for Refund Express Abandonment Request Reference; Return Postcard CD, Number of CD(s) \_\_\_\_\_ Information Disclosure Statement Certified Copy of Priority Remarks Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Attorney Name Reg. No. Firm G. Gregory Schivley / Harness, Dickey & Pierce, P.L.C. 27,382 / 40,344 Bryant E. Wade Individual name Signature Date October 7, 2005 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Express Mail Label No. EV 717 344 888 US Typed or printed name G. Gregory Schroley / Bryant E. Wade

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.G. 122 And 37 CFR 1.14. This objection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 223 (3-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date

October 7, 2005

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Signature

PTO/SB/17 (12-04)
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**FEE TRANSMITTAL** for FY 2005

Effective 10/01/2004. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL	<b>AMOUNT</b>	OF	PAYMENT	(\$)	180
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Complete if Known						
Application Number	10/801,933					
Filing Date	03/16/2004					
First Named Inventor	Akiyoshi AOYAGI					
Examiner Name	Ben P. Sandvik					
Art Unit	2826					
Attorney Docket No.	9319S-000670					

	ETHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)								
Cheek C	Credit cord		3. ADDITIONAL FEES							
☐ Check ☐	Credit card  Money  Other  None Order	Large	e Entity	Small	Entity					
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Deposit		1051	130	•	55	Surcharge - late filing fee or oath				
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Number						or cover sheet.				
Deposit		1053	130		130	Non-English specification				
Account	Epson R & D	1812 1804	2,520 920*		2,520 920*	For filing a request for reexamination	$\square$			
Name		1004	920	1004 8	920	Requesting publication of SIR prior to Examiner action				
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	indicated below	1				Examiner action				
☐ Charge fee(s	indicated below, except for the filing fee	1251 1252	120 450		50 225	Extension for reply within first month				
to the above-ide	tified deposit account.	1232	450	2232 2	225	Extension for reply within second month				
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1. BASIC	ILING FEE	1254	1,590	2254 7	795	Extension for reply within fourth				
Large Entity	Small Entity	1055				month				
Fee Fee	Fee Fee <u>Fee Description</u>	1255 1401	2,160 500		1080	Extension for reply within fifth month				
Code (\$) 1011 300	Code (\$) Fee Paid 2011 150 Utility filing fee	1401	500		250 · 250	Notice of Appeal				
1012 200	2011 150 Utility filing fee 2012 100 Design filing fee	1402	1000		500	Filing a brief in support of an appeal  Request for oral hearing				
1012 200	2013 100 Plant filing fee	1452	500		250	Petition to revive – unavoidable				
1014 300	2014 150 Reissue filing fee	1453	1500		750	Petition to revive – unintentional				
1005 200	2005 100 Provisional filling fee	1501	1400	2501 7	700	Utility issue fee (or reissue)				
<u>'</u>	SUBTOTAL (1) (\$) 0	1502	800	2502 4	100	Design issue fee				
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2. EXTRA CL	1807	50	1807 5	50	Processing fee under 37 CFR 1.17 (q)					
	1806	180	1806 1	180	Submission of Information Disclosure Stmt	180				
Total Claims	-20 ** = 0 X Paid					Recording each patent assignment				
Independent	-20 ** = 0 X = 0	8021	40	8021 4	10	per property (times number of				
Claims	-3 ** = 0 X = 0					properties)				
Multiple		1809	790	2809 3	395	Filing a submission after final rejection (37 CFR § 1.129(a))				
Dependent	= 0	1810	790	2810 3	395	For each additional invention to be				
Large Entity	Small Entity					examined (37 CFR § 1.129(b))				
Fee Fee	Fee Fee Description	1801	790	2801 3	395	Request for Continued Examination (RCE)				
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		1114	500		250	Reissue Search Fee				
	SUBTOTAL (2) (\$) 0	1311	200		100	Utility Examination Fee				
		1312	130		55	Design Examination Fee				
		1313	160	2313 8	30	Plant Examination Fee				
		1314	600	2314 3	300	Reissue Examination Fee				
**or number pre	iously paid, if greater; For Reissues, see above		'			SUBTOTAL (4) (\$)0				
SUBMITTED BY						Complete (if applicable)				
	G. Gregory Schivley / Registration No.4		27,	382 /		Tonital (in application)				
Name (Print/Type)	Bryant E. Wade (Attorney/Agent)	. /	40,	344	1	Telephone (248) 641-1600				
Signature	7 6 ///	wer	5		-	Date October 7, 2005				
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<u>PATENT</u>

OF

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

plication No.:

10/801,933

Filing Date:

03/16/2004

Applicant:

Akiyoshi AOYAGI

**Group Art Unit:** 

2826

Examiner:

Ben P. Sandvik

Title:

SEMICONDUCTOR DEVICE, ELECTRONIC DEVICE,

ELECTRONIC APPARATUS, METHOD MANUFACTURING SEMICONDUCTOR DEVICE, ....

Attorney Docket:

9319S-000670

Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

#### INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

#### I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

### II. COPIES

A. Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed, other than U.S. patents and U.S. patent application publications unless required by the Office; (iii) each unpublished U.S. application listed below in Section IV (i.e., including the specification, claims, and any drawing of the application, or that portion of the application which caused it to be listed, including any claims directed to that portion), except for such applications filed on or after June 30, 2003, pursuant to the Waiver of the Copy Requirement in 37 C.F.R. 1.98 (OG Notice dated October 19, 2004); and (iv) all other information or that portion which caused it to be listed.

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	B. Any patents, 1449 or on the copie previously cited by applications which U.S.C. § 120:	es of PTO-892, bu / or submitted t	t which are not e o the PTO in	enclosed herewi one of the f	th, were
	U.S. Serial	<u>Number</u>	<u>U.S. F</u>	iling Date	
	C. This is a PC United States. A confidence of Examiner's information report are listed on the and for listing on an inspect of Search report was these references should be agreement and are 10 (MPEP 1893.03(g).)	opy of the Internation. The docum the attached Form y patent resulting from the US, EPC ould have been subelieved to be in the	ional Search Reents listed on the 1449 for consider from this application, or JPO search pplied to the US	eport is attached the International eration by the E tion. If the Inter th authorities, co EPTO under the	d for the Search xaminer national opies of trilateral
III.	CONCISE EXPLANA	ATION OF THE R	ELEVANCE (che	eck <u>at least</u> one	box)
	A.  Except as ma or other information required).	y be indicated bel are in the Engl	ow in (B), all of t ish language (c	he patents, publ concise explana	lications tion not
	B. A concise exother information lis 37 C.F.R. § 1.98(a)(	ted that is not in t	elevance of eac the English lang	h patent, public uage is as follo	ation or ws (see
		attached foreign p n application in:	atent office com	nmunication rega	arding a
		translations are ed Form 1449.	provided as fo	llows: As indica	ated on
	3.   Other:				
	C. The following consideration:	g additional inforr	nation is provid	led for the Exa	aminer's
IV.	CROSS REFERENCE	E TO RELATED	APPLICATION(S	<u>S)</u>	
	A. The Examiner contain(s) subject multiplication bringing this(these) does (do) not waive	natter that may be application(s) to	related to the p the Examiner's	oresent application, App	ion. By
	Serial No.	Filing Da	te	Art Unit	

Serial No.10/801,933 Page 2 of 5

<b>V</b> .	THIS IDS IS BEING FILED UNDER
	A.
	1.  within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.
	2. within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.
	3.  before the mailing of a first Office Action on the merits (37 C.F.R § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).
	4. Defore the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee of certification is required.
	B.
	before the mailing date of either any Final Office Action under 37 C.F.R § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.
	1. $\boxtimes$ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
	2. See the certification below. No fee is required.
	C. 37 C.F.R. § 1.97(d):
	after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.
	1. See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
/I.	CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)

The undersigned hereby certifies that:

	A.   each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)).   See further statement under 37 C.F.R. 1.704(d) below in section VII, if applicable; or
	B.   no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).
	C. some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.
VII.	STATEMENT UNDER 37 C.F.R. 1.704(d)
	The undersigned hereby states that:
	ach item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.
VIII.	PAYMENT OF FEES (check only one box)
	A. $\square$ A check in the amount of \$180.00 is enclosed for the above identified fee.
	B. $\boxtimes$ Please charge Deposit Account No. 50-3213 in the amount of \$180.00 for the above-indicated fee.
anticip comb	The above references are being cited only in the interest of candor and ut any admission that they constitute statutory prior art, contain matter which pates the invention, or which would render the same obvious, either singly or in ination, to a person of ordinary skill in the art. Furthermore, this Information osure Statement shall not be construed as a representation that a search has

Serial No.10/801,933

been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 50-3213 (Epson R&D).

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 50-3213 (Epson R&D).

Respectfully submitted,

Dated: October 7, 2005

By: \_\_\_\_/ heave / le G, Gregory/Schivley

Reg/No. 27/382 Bryant E. Wade Reg. No. 40,344

Harness, Dickey & Pierce, P.L.C. P.O. Box 828 Bloomfield Hills, Michigan 48303 (248) 641-1600

OCT 07 2005

GGS/BEW/JAH



FORM HDR Made Based on Form PTO-1449)

## PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 2

ATTORNEY DOCKET NO.	SERIAL NO.				
9319S-000670	10/801,933				
APPLICANT					
Akiyoshi AOYAGI					
FILING DATE	GROUP				
03/16/2004	2826				

U.S. P	ATENT DO	CUMENTS				
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		6,023,097	02/08/2000	Chiang et al.		
2.		6,025,650	02/15/2000	Tsuji et al.		
3.		6,034,425	03/07/2000	Chiang et al.		
4.		6,288,445	09/22/2001	Kimura		
5.		2002/0017709	02/14/2002	Yanagisawa et al.		
6.		6,489,678	12/03/2002	Joshi		
7.		6,573,119	06/03/2003	Hirashima et al.		
8.		6,611,063	08/26/2003	Ichinose et al.		
9.		6,627,991	09/30/2003	Joshi		
10.		6,731,009	05/04/2004	Jones et al.		
11.		2004/0222510	11/11/2004	Aoyagi		
12.		2004/0238954	12/02/2004	Miyaji et al.		
13.		6,903,458	06/07/2005	Nathan	.,	

FÖREIGN PATENT DOCUMENTS											
Ref. Desig.	Examiner's Document  J. Initials Number		Date	Country	Class/ Subclass	Translation Yes	* No				
1.		JP 10-340928	12/22/1998	JAPAN		Abstract					

Examiner:	Date Considered:

### FORM HDP-1449 (Based on Form PTO-1449)

# PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 2 of 2

ATTORNEY DOCKET No.	SERIAL NO.						
9319S-000670	10/801,933						
APPLICANT	7100						
Akiyoshi AOYAGI							
FILING DATE	GROUP						
03/16/2004	2826						

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)														
Ref. Desig.	Examiner's Initials						-							
1.														

\*One or more of the English translation documents submitted herewith may be Abstracts only or partial machine created translations from the Japanese Patent Office. As such, the submitter does not necessarily vouch for their accuracy. Additional information may be obtained from the Japanese Patent Office web site at <a href="https://www.ipo.go.ip">www.ipo.go.ip</a>

Examiner:	Date Considered:	